

WHAT IS CLAIMED IS:

1. A driving system for a garage door, comprising:

a track (12) having an end adapted to be fixed on an inside of a wall and
having an open side that faces upward, a driving assembly (20) movably received in
5 the track (12) and adapted to be driven by a motor (60), a power transferring member
(50) having two ends and the two ends of the power transferring member (50)
connected to the driving assembly (20), a U-shaped member (40) movably engaged
with the track (12) from an underside of the track (12) and two sides of the U-shaped
member (40) connected to the driving assembly (20), one end of a link (41, 42)
10 pivotably connected to the U-shaped member and the other end of the link (41, 42)
adapted to be connected to the garage door (11).

2. The system as claimed in claim 1, wherein the driving assembly (20)
comprises a base (21) and a cover (22) which is mounted to the base (21), the base
(21) has two grooves (210) and the cover (22) has two grooves (220) which are
15 located in alignment with the grooves (220), a connection member (51) having a
clamping recess (510) defined in each of two ends thereof and the two ends of the
power transferring member (50) respectively engaged with the two clamping
recesses (510), the connection member (51) movably received in a space defined by
the aligned grooves (210 and 220).

20 3. The system as claimed in claim 2, wherein the cover (22) has a window
(222) and the base (21) has a concavity (211) defined in a top thereof, a retaining
member (23) having a protrusion (230) extending from an underside of an end
thereof and the protrusion (230) rotatably received in the concavity (211), a recessed

area (231) defined in a top of the retaining member (23) and a stop (232) extending from a surface of the recessed area (231) so as to define an annular path around the stop (232), a pulling member (31) having a tongue (310) extending from an end thereof so as to be removably engaged with a recess (511) defined in a side of the 5 connection member (51) and a top plate (312) extending from a top of the pulling member (31), the top plate (312) movably extending through the window (222) of the cover (22), a boss (311) extending from an underside of the pulling member (31) and movably engaged in the annular path of the retaining member (23), a spring (32) connected between the top plate (312) and a ring (224) on the cover (22) so as to 10 bias the tongue (310) to be engaged with the recess (511) of the connection member (51), a rope (33) connected to the top plate (314) so as to pull the top plate (312) to disengage the tongue (310) from the recess (511) of the connection member (51).

4. The system as claimed in claim 2, wherein the cover (22) having two lugs (223) extending from a top of each of two sides thereof and two pins (24) 15 extending through the two sides of the U-shaped member (40) and the two respective pairs of lugs (223) aligned with each other.

5. The system as claimed in claim 1, wherein a gear (52) is rotatably located in the track (12) and has an engaging hole defined therethrough, the track (12) having an opening defined therethrough and located in alignment with the engaging 20 hole of the gear (52), the power transferring member (50) reeing through the gear (52), the motor (60) having a driving shaft (61) extending therefrom and the shaft (61) extending through the opening of the track (12) and engaged with the engaging hole of the gear (52).

6. The driving system for a garage door, comprising:
a track (12) having an end adapted to be fixed on an inside of a wall and a
driving assembly (20) movably received in the track (12) and adapted to be driven
by a motor (60), a power transferring member (50) having two ends and the two ends
5 of the power transferring member (50) connected to the driving assembly (20), a
gear (52) rotatably located in the track (12) and having an engaging hole defined
therethrough, the track (12) having an opening defined therethrough and located in
alignment with the engaging hole of the gear (52), the power transferring member
(50) reeving through the gear (52);
10 the motor (60) having a driving shaft (61) extending therefrom and the
shaft (61) extending through the opening of the track (12) and engaged with the
engaging hole of the gear (52), and
one end of a link (41, 42) pivotably connected to the driving assembly (20)
and the other end of the link (41, 42) adapted to be connected to the garage door
15 (11).
7. The system as claimed in claim 6, wherein the track (12) has an open
side that faces upward and a U-shaped member (40) is movably engaged with the
track (12) from an underside of the track, and two sides of the U-shaped member (40)
connected to the driving assembly (20).
20 8. The system as claimed in claim 6, wherein the driving assembly (20)
comprises a base (21) and a cover (22) which is mounted to the base (21), the base
(21) having a groove (210) and the cover (22) having a groove (220) which is
located in alignment with the groove (220), a connection member (51) having a

clamping recess (510) defined in each of two ends thereof and the two ends of the power transferring member (50) respectively engaged with the two clamping recesses (510), the connection member (51) movably received in a space defined by the aligned grooves (210 and 220).

5 9. The system as claimed in claim 8, wherein the cover (22) has a window (222) and the base (21) has a concavity (211) defined in a top thereof, a retaining member (23) having a protrusion (230) extending from an underside of an end thereof and the protrusion (230) rotatably received in the concavity (211), a recessed area (231) defined in a top of the retaining member (23) and a stop (232) extending
10 from a surface of the recessed area (231) so as to define an annular path around the stop (232), a pulling member (31) having a tongue (310) extending from an end thereof so as to be removably engaged with a recess (511) defined in a side of the connection member (51) and a top plate (312) extending from a top of the pulling member (31), the top plate (312) movably extending through the window (222) of
15 the cover (22), a boss (311) extending from an underside of the pulling member (31) and movably engaged in the annular path of the retaining member (23), a spring (32) connected between the top plate (312) and a ring (224) on the cover (22) so as to bias the tongue (310) to be engaged with the recess (511) of the connection member (51), a rope (33) connected to the top plate (314) so as to pull the top plate (312) to
20 disengage the tongue (310) from the recess (511) of the connection member (51).

10. The system as claimed in claim 7, wherein the cover (22) has two lugs (223) extending from each of a top of each of two sides thereof and two pins (24)

extend through the two sides of the U-shaped member (40) and the two respective pairs of lugs aligned with each other.

11. A driving system for a garage door, comprising:

a track (12) having an end adapted to be fixed on an inside of a wall and a
5 driving assembly (20) movably received in the track (12) and adapted to be driven
by a motor (60), a power transferring member (50) having two ends and the two ends
of the power transferring member (50) connected to the driving assembly (20), one
end of a link (41, 42) pivotably connected to the U-shaped member and the other end
of the link (41, 42) adapted to be connected to the garage door (11).

10 12. The system as claimed in claim 10, wherein the driving assembly (20)
comprising a base (21) and a cover (22) which is mounted to the base (21), the base
(21) having a groove (210) and the cover (22) having a groove (210) which is
located in alignment with the groove (220), a connection member (51) having a
clamping recess (510) defined in each of two ends thereof and the two ends of the
15 power transferring member (50) respectively engaged with the two clamping
recesses (510), the connection member (51) movably received in a space defined by
the aligned grooves (210 and 220).

13. The system as claimed in claim 12, wherein the cover (22) has a
window (222) and the base (21) has a concavity (211) defined in a top thereof, a
20 retaining member (23) having a protrusion (230) extending from an underside of an
end thereof and the protrusion (230) rotatably received in the concavity (211), a
recessed area (231) defined in a top of the retaining member (23) and a stop (232)
extending from a surface of the recessed area (231) so as to define an annular path

around the stop (232), a pulling member (31) having a tongue (310) extending from an end thereof so as to be removably engaged with a recess (511) defined in a side of the connection member (51) and a top plate (312) extending from a top of the pulling member (31), the top plate (312) movably extending through the window (222) of the cover (22), a boss (311) extending from an underside of the pulling member (31) and movably engaged in the annular path of the retaining member (23), a spring (32) connected between the top plate (312) and a ring (224) on the cover (22) so as to bias the tongue (310) to be engaged with the recess (511) of the connection member (51), a rope (33) connected to the top plate (314) so as to pull the top plate (312) to disengage the tongue (310) from the recess (511) of the connection member (51).

14. The system as claimed in claim 11 wherein the track (12) has an open side that faces upward and a U-shaped member (40) is movably engaged with the track (12) from an underside of the track (12), two sides of the U-shaped member (40) connected to the driving assembly (20).

15. The system as claimed in claim 14 wherein the cover (22) has two lugs (223) extending from a top of each of two sides thereof and two pins (24) extend through the two sides of the U-shaped member (40) and the two respective pairs of lugs aligned with each other.